



Republic of the Philippines
Department of Environment and Natural Resources
Provincial Environment and Natural Resources Office
MIMAROPA Region
Bgy. Sta. Monica, Puerto Princesa City, Palawan
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Telfax No. (048) 433-5638 / (048) 433-5638

April 11, 2023

MEMORANDUM

FOR : The Regional Executive Director
DENR MIMAROPA Region
1515 L&S Bldg., Roxas Blvd.,
Barangay 668, Ermita, Manila

FROM : The Provincial Environment and
Natural Resources Officer


SUBJECT : **MONITORING REPORT ON STATUS OF RISK REDUCTION
EFFORTS ON OIL SLICK FROM FROM MT PRINCESS EMPRESS
WITH THE CONSOLIDATED RESULTS ON RAPID RISK
ASSESSMENT**

Respectfully forwarded is the Memorandum dated April 4, 2023, of DMO IV, In-Charge, Office of the CENRO Mariano P. Lilang, Jr. with enclosures relative to the monitoring and Rapid Risk Assessment conducted within the municipality of Taytay, Palawan in connection to the oil spill incident from the sunken M/T Princess Empress in Oriental Mindoro.

Please be informed that the aforementioned activities were conducted from March 11-24, 2023, participated with the personnel from PENRO Palawan, CENRO Taytay, Environmental Management Bureau – Provincial Environment Management Office (EMB-PEMO), Mines and Geo-Science Bureau (MGB), Protected Area Management Office – Malampaya Sound Protected Landscape and Seascape (PAMO-MSPLS), Protected Area Management Office – El Nido Taytay Managed Resource Protected Area (PAMO-ENTMRPA), Bureau of Fishery and Aquatic Resources (BFAR), and Palawan Council for Sustainable Development (PCSD) Department of Interior and Local Governance (DILG), Philippine Coast Guard (PCG), PNP-Philippine Marines, Provincial Disaster Risk Reduction Office (PDRRMO), Municipal - Local Government Unit of Taytay, Municipal Disaster Risk Reduction Office (MDRMMO), Municipal Social Welfare and Development Office (MSWDO), Municipal Environment and Natural Resources Office (MERO), Office of Municipal Agriculturist's (OMA), and the respective barangay concerned. The multisectoral team during the said period conducted an ocular inspection, assessment, water sampling, coastal clean-up, and Information Education and Communication (IEC) within Barangay Casian, Calawag, Batulan, Pamantolon, Baras, and Poblacion Taytay, Palawan.

Further, upon verification, oil contamination in Barangay Calawag is comparably slight to Sitio Amianan, Barangay Casian, Taytay, Palawan. An oil sheen was evident in Barangay Calawag, Taytay, Palawan hence, losses to the seaweed farmers were brought about by untimely harvest.

For information and further instruction.


HELIZARDO B. CAYATOC

Cc:
EMB-PEMU
PCSD
LGU-PDRRMO

DR #: 2023-3269



Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
Taytay & El Nido, Palawan
by the National Highway, Poblacion, Taytay, Palawan 5312
Mobile: 0926-505-9335 TM 0912-171-3889 TNT

April 4, 2023

MEMORANDUM

FOR : The Provincial Environment and
Natural Resources Officer - Palawan
Sta. Monica, Puerto Princesa City

FROM : The Community Environment and
Natural Resources Officer
Taytay – El Nido, Palawan

**SUBJECT : MONITORING REPORT ON STATUS OF RISK
REDUCTION EFFORTS ON OIL LICK FROM MT
PRINCESS EMPRESS WITH THE CONSOLIDATED
RESULTS ON RAPID RISK ASSESSMENT**

Respectfully submitting is the above report submitted by DMO IV Mariano P Lilang, Jr. consisting eighteen (18) pages detailing actions of this Office in coordination with the various sectors from Day 1 (March 10) to Days 16-18 (March 28-30).

As recommended, we shall continue with the coordination and monitoring efforts and water testing until the issue is finally terminated.

Please confirm your receipt hereof. Thank you.

For and in the absence of the CENR Officer:

**DENR CENRO
TAYTAY, PALAWAN
RELEASED**

BY: APR 04 2023 1306

MARIANO P. LILANG, JR.
Development Management Officer IV
In-charge, Office of the CENRO
pursuant to DAO 2022-09, page 3



Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
Taytay, Palawan

DOCUMENT ACTION INFORMATION FORM

Doc. Ref. No.: **2023-2303**

Date and Time received:

04/04/2023 05:07:08 PM

From: Mariano P. Lilang, Jr.

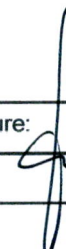
Document Type: Memorandums

CENRO-Taytay, Palawan

Subject: Memo/re: Monitoring Report on the Status of Risk Reductions efforts on oil slick from MT Princess Empress with consolidated results on Rapid Risk Assessment

Attachment(s): No attachment(s)

Earmarked As :

Date:	4/4/23	From:	CENRO	To:	MS LU
Action Recommended/Required:		Processing Time:		Remarks:	
<input type="checkbox"/> For Action	<input type="checkbox"/> For Official Release	<input type="checkbox"/> Urgent (w/in the day)			
<input type="checkbox"/> For Approval	<input type="checkbox"/> For Review/Recommendation	<input type="checkbox"/> Priority (w/in 3 days)			
<input type="checkbox"/> For Disbursement/ Payment	<input type="checkbox"/> For Signature	<input type="checkbox"/> Complex			
<input type="checkbox"/> For Information, Record and File	<input type="checkbox"/> Return to Payee/Sender	___ w/in 7 days			
<input checked="" type="checkbox"/> For Indorsement to concerned Party(ies)	<input type="checkbox"/> Others	___ w/in 20 days or shorter			
		W/in ___ days or shorter		Signature:	
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<input type="checkbox"/> For Approval	<input type="checkbox"/> For Review/Recommendation	<input type="checkbox"/> Priority (w/in 3 days)			
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<input type="checkbox"/> For Information, Record and File	<input type="checkbox"/> Return to Payee/Sender	___ w/in 7 days			
<input type="checkbox"/> For Indorsement to concerned Party(ies)	<input type="checkbox"/> Others	___ w/in 20 days or shorter			
		W/in ___ days or shorter		Signature:	



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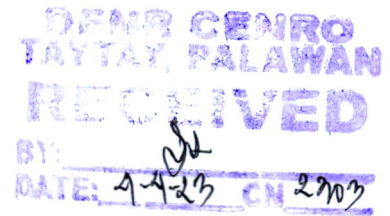
March 31, 2023

MEMORANDUM

FOR : The Community Environment and Natural Resources Officer
Taytay-El Nido, Palawan

FROM : Mariano P. Lilang, Jr.

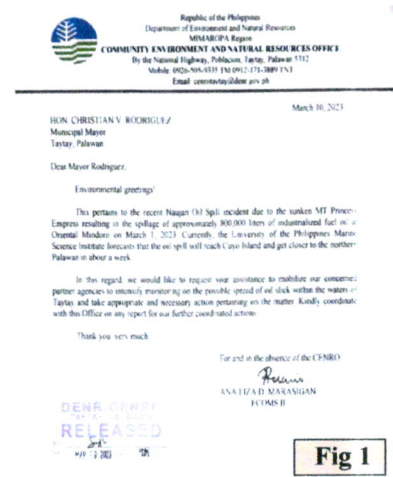
SUBJECT : **MONITORING REPORT ON THE STATUS OF RISK REDUCTION EFFORTS ON OIL SLICK FROM MT PRINCESS EMPRESS WITH CONSOLIDATED RESULTS ON RAPID RISK ASSESSMENT**



With due respect, the first situational report hereon was submitted on 12 March, 2023. **Day 1** of the monitoring activities, upon knowledge of the oil spillage reaching Taytay Bay was on March 10, 2023 (**Friday**) with the coordination to the Local Government Unit (Figure 1). Onwards, the following were undertaken:

March 11 (**Day 2, Saturday**)

- Multisector group conducted ocular inspection and coastal clean-up at Sitio Amianan, Casian, Taytay, Palawan. Drone was also flown.
- Another multisector group led by PENRO Felizardo B. Cayatoc (PENRO) went around Taytay Bay extracting water samples including in So. Amianan.
- The two groups had a meeting with Hon Norbert V. Lim, Punong Barangay of Casian, Taytay, Palawan.



March 12 (**Day 3, Sunday**)

- Joined the Marine Battalion Landing Team -3 in responding to the report of oil slick/sheen in Calumpang, Calawag, Taytay, Palawan (Fig 2)
- Volunteers, residents and BLGUs started improvising oil spill boom using coconut husks, among others (Fig 3 and 4)



March 13 (Day 4, Monday)

- Memorandum issued to Forest Technician I Voltaire M. delos Angeles (delos Angeles) to spearhead quick response activities in line with DENR CO SO 2023-82.

DENR – EMB MIMAROPA WATER SAMPLING RESULTS		
DATE SAMPLED	SAMPLING AREA	OIL AND GREASE RESULTS
MARCH 13, 2023	1. SO. BALED, BITON, TAYTAY, PALAWAN	(13) FAILED
	2. SO. TAGPAO, BITON, TAYTAY, PALAWAN	(18) FAILED
	3. DINAMAYAN ISLAND, BITON, TAYTAY, PALAWAN	(40) FAILED
	4 SO. SADER, BANTULAN, TAYTAY, PALAWAN	(43) FAILED
	5. SO. AMOGUES, CALAWAG, TAYTAY, PALAWAN	(3) PASS
	6. SO. CALUMPANG, CALAWAG, TAYTAY, PALAWAN	(6) FAILED
	7. CALAWAG PORT, CALAWAG, TAYTAY, PALAWAN	(3) PASS

Fig 5

- Water sampling in Barangay Biton, Bantulan, and Calawag with the results (Fig 5)
- Patrolling of the Marine Batallion Landing Team -3 in Taytay Bay with the Municipal (Taytay) Agriculturist.
- Collected about ¼ sack of wastes tainted with oil slick in Sitio Maliao, Pamantolon.

March 14 (Day 5, Tuesday)

- Hon Mayor Christian V. Rodriguez (Hon. Mayor) called for a meeting and created the Taytay Task Force Oil Spill. In attendance were CENR Officer Conrado M. Corpuz (CENRO) and representatives of Philippine Coast Guard, Philippine Marines, Municipal Disaster Risk Reduction Office, Municipal Social Welfare and Development, Municipal Environment and Natural Resources Office, Municipal Agriculturist's Office, and MTDMO (Fig 6).



- Coordination to concerned agencies and communities was consistent with the intensified production of spill booms, calling for donation of materials like rags, old clothes, ropes, among others, and call for volunteers.

March 15 (Day 6, Wednesday)

- Coordination to the Municipal Disaster Risk Reduction Management Officer (MDRRMO) with regards the progress LGU monitoring and the deployment of personnel for water

sampling in designated areas reported of oil presence sightings (Fig 7). The coordination was spearheaded by delos Angeles.

- Meanwhile, monitoring of the ENMRPA PAMO in coordination with the MDRRMO El Nido disclosed there was no sighting of oil slick in the sea waters of El Nido Bay. LGU El Nido was also ready in the disaster risk reduction management activities like donation drive for oil spill boom materials.



Fig 7

March 16 (Day 7, Thursday)

- Water samples taken in three areas suspected to have been contaminated (Fig 8). The results turned out to have all passed the standard of oil and grease contamination (Fig 9).
- Information Officer Rodel M. Dorado (Dorado) along with delos Angeles, and MGB embedded staff Francis Jade Cometa, among others, were in non-stop coordination with the various sectors, and the Barangay Local Government Units in the coastal area. They actually participated in the production of improvised spill boom.
- The PCG has spill booms, absorbent pads and protective gears available anytime needed.



Fig 8

DENR – EMB MIMAROPA WATER SAMPLING RESULTS		
Date	SAMPLING AREA	RESULTS
MARCH 16, 2023	IBOBOR ISLAND, BARAS, TAYTAY, PALAWAN	(2) PASS
	P. SANCTUARY, BARAS, TAYTAY, PALAWAN	(4) PASS
	LITTLE TONDO, POBLACION, TAYTAY, PALAWAN	(3) PASS

Fig 9


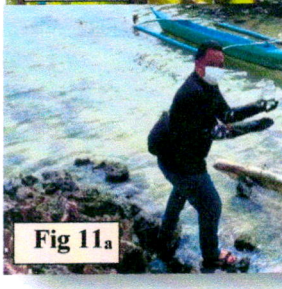
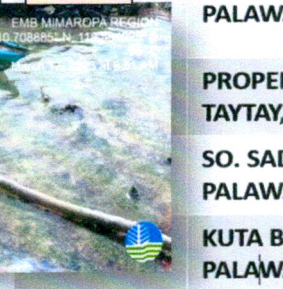
March 17 (Day 8, Friday)

- Continued community consultation and monitoring (Figs 10).
- Dorado coordinated to Punong Barangay Hon Ely S. Abis of Poariquen, Taytay, Palawan. The BLGU has readied a spill boom, accordingly.



Figs 10

- Water sampling and examination continued in six (6) new areas with the results shown below (Figures 11, 11a, and 11b):

DENR – EMB MIMAROPA WATER SAMPLING RESULTS		
Date	SAMPLING AREA	RESULTS
MARCH 17, 2023	CALAWAG PROPER, CALAWAG, TAYTAY, PALAWAN	(3) PASS
	SO. AMOGUES, CALAWAG, TAYTAY, PALAWAN	(2) PASS
	SO. CALUMPANG, CALAWAG, TAYTAY, PALAWAN	(6) FAILED
	PROPER BANTULAN, BANTULAN, TAYTAY, PALAWAN	(14) FAILED
	SO. SADER, BANTULAN, TAYTAY, PALAWAN	(28) FAILED
	KUTA BEACH, POBLACION, TAYTAY, PALAWAN	(20) FAILED

March 18 (Day 9, Saturday)

- World Water Day 2023 was celebrated in cleaning-up the rivers, esteros, and canals simultaneous to still tight coordination with the LGU on the oil spill issue. There were 570 men and women from various sectors, public and private, uniformed and non-uniformed alike, who joined the clean-up (Fig 12). The day was productive and IECs were given, to wit:



- ✓ MHO representative on dengue outbreak which also is connected to water issues.
- ✓ EMB staff held on RA 9003 and Clean Water Act.
- ✓ CENRO staff on Gender and Development (GAD).

March 19 (Day 10, Sunday)

- Dorado constantly monitored the coastal area of nearby Taytay Bay and did not find traces of oil slick. (Fig 13 & 14)



March 20 (Day 11, Monday)

- CENRO Conrado M. Corpuz, delos Angeles, Dorado, along with the MSWDO, OMA, PCG, and DILG among others had coordinated to the MDRRMO with regards to the result of LGU assessment on affected individuals/families and the continuous monitoring and deployment of personnel for daily water sampling at the affected coastal/island barangays (Fig 15)



March 21 (Day 12, Tuesday)

- The coordination and monitoring activities just went on.

March 22 (Day 13, Wednesday)

- Another coastal clean-up held for World Water Day celebration. It, originally, was to be made in the areas where oil slicks or tarts were reportedly sighted but there was an advice from the top management not to touch the coastal areas yet pending the performance of rapid assessment. The activity was held in the immediate shore of the town (Figures 16 and 17). PENRO and some members of his staff came along.



- PENRO held a meeting with the CENRO Staff to create three teams to undergo Rapid Assessment resultant of the meeting with the provincial government, providing the instruction thereon. The Rapid Assessment is a one whole day activity on March 24 (Fig 18) in the various areas where oil sheen/slick/tart were sighted.
- Three (3) teams where formed and, ideally, each team should have multi-sector composition, thus:



Team	Area
Team 1	Calawag (Amogues, Calumpang, Paulangon, and Proper)
Team 2	Biton, Dinamayan Is., Bantulan, Baras
Team 3	Casian, Debanan, Pamantolon (Maliao)

March 23 (Day 14, Thursday)

- Inter-agency meeting was held at the Conference Hall of the Municipal Building led by PENRO Staff to finalize the membership of and representation in the three (3) teams on Rapid Assessment (Fig 19)
- In his message, the Hon Mayor reminded of to be responsible in posting information in the social media and hopes the results of the assessment would finally put matters into settlement. Accordingly, the various operating units of the local government in coordination with the national government, especially with the Philippine Coast Guard are on steady engagement on the incident.
- A CENRO staff devised three Assessment Forms (Fig 20, 21, 22), to wit:



Fig 19

Rapid Assessment on Affected Areas in the Province of Palawan
re: MT Princess Empress Oil Spill Incident

BIODIVERSITY COMPONENT

Date: _____ Time: _____
Purok/Sitio: _____ Barangay: _____
Municipality: _____ Coordinates: _____

Habitats present in the area: <input type="checkbox"/> Corals <input type="checkbox"/> Seagrass <input type="checkbox"/> Mangroves <input type="checkbox"/> Beach Forest <input type="checkbox"/> Mudflats	Wildlife present in the area: <input type="checkbox"/> Sea turtle sightings <input type="checkbox"/> Sea turtle nesting <input type="checkbox"/> Sea/shore birds <input type="checkbox"/> Marine mammals: Dolphin, Dugong, Whale <input type="checkbox"/> Other wildlife: pls. specify _____
--	--

Common fishery commodities: pls. specify _____

Other animals/plants were found dead since spillage: _____

Locally Managed Marine Protected Area (LMMPA): ☐ Present ☐ Absent
LMMPA Name: _____ Total Area (Ha): _____

Other observations: _____

Fig 20

Rapid Assessment on Affected Areas in the Province of Palawan
re: MT Princess Empress Oil Spill Incident

DEGREE OF OIL OBSERVED

Duration of oil observed: _____ Date started _____ Date end _____
Purok/Sitio: _____ Barangay: _____
Municipality: _____ Coordinates: _____

Presence of Oil:

☐ Shoreline:
Degree of oil:
☐ None
☐ Low (With minimal oil sheen)
☐ Moderate (With multiple patches of oiled coast, tar/slick)
☐ High (With thick oil on shore)
Extent of affected shoreline: _____ km

☐ Offshore:
☐ Smell
☐ Estimated length from the shore: _____ km

Estimated oil collected/extracted: _____ kg/drum
Disposal plan/area: _____

Fig 21

Rapid Assessment on Affected Areas in the Province of Palawan

re: MT Princess Empress Oil Spill Incident

SOCIO-ECONOMICS COMPONENT

Name: _____

No. of Household Members: _____

Gender: ☐ Masculine | ☐ Feminine | ☐ LGBTQ+ | ☐ Prefer not to say

Date: _____

Purok/Sitio: _____

Barangay: _____

Municipality: _____

Source of Income: _____

Aid received:

☐ Financial assistance, from _____
 ☐ Donations in kind, from _____
 ☐ PPEs, from _____
 ☐ Others _____
 ☐ None

Preventive Measures:

1. Installed Oil Slick Booms: ☐ Present ☐ Absent

2. Awaiting/For Installation: ☐ Present ☐ Absent

3. On-going preparation: ☐ Present ☐ Absent

4. Conducted Clean-up: ☐ Present ☐ Absent

5. Others: _____

Remarks/Notes:

Fig 22

Rapid Assessment March 24 (Day 15, Friday)

- Team 1 in Calawag split into two (2) groups to cover the whole one day assignment. SubTeam 1_a went for Amogues and Calumpang. SubTeam 1_b went for Calawag proper (Purok Bagong Silang, Boulevard, and Delmar), and Paulangon. The two sub teams met noontime in Paulangon. The PENRO and his staff went with Sub Team 1_a.
- Rapid assessment included interview as per the Assessment Forms, aerial survey through drone, shoreline inspection, IEC, a bit of biscuits distribution, and water sampling; thus:

Amogues	Figs 23, 24, 25, 26, 27
Location	10° 43' 11" N 119° 35' 39" E
L.C. Status	Unclassified Public Forest per Project 9, LC 939 dated May 21, 1932
Household	239
Assessment	9:09 AM onwards of March 24
Respondents	20
SOCIO ECONOMICS:	See Table 1
BIODIVERSITY:	See Table 2



Fig 24

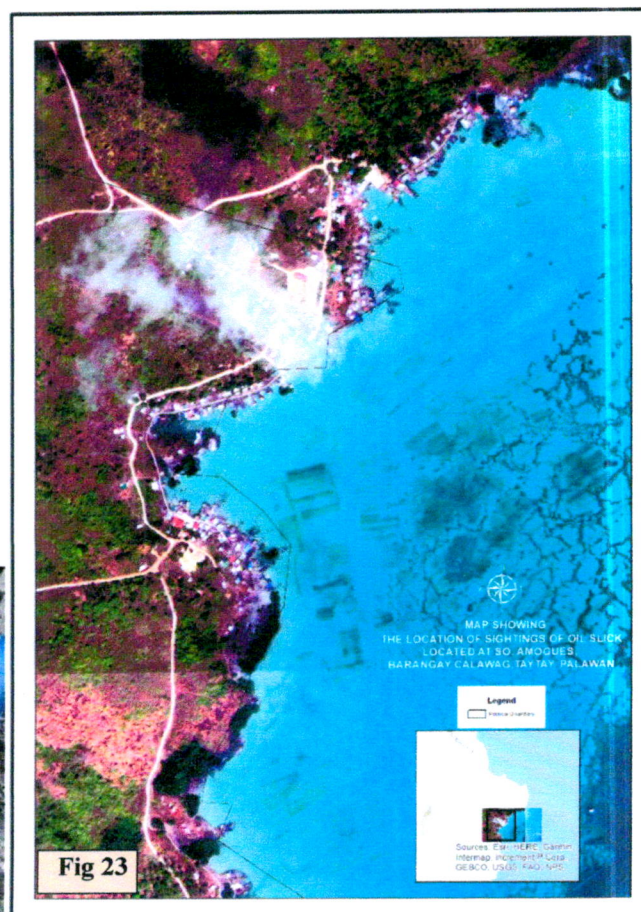


Fig 23



Photo documentation: Shown above (Fig 23) is the vicinity of Amogues. Fig 24 shows the EMB representative taking water sample. Fig 23 is a BFAR representative on interview with Pastor Oscar Escala, a seaweeds farmer. Fig 26 is delos Angeles catching the drone, and Fig 27 shows the actual immersion of Team 1 in the community making the interview.

Calumpang :	Figs 28, 29, 30, 31
Location	10° 42' 32" N 119° 35' 39" E
LC Status	Unclassified Public Forest per LC 939 (Project 9) dated May 21, 1932
Household	74
Respondents	2 for Socio-economics 3 for Biodiversity
Assessment	10:08 AM onwards of March 24
SOCIOECONOMICS:	See Table 3
BIODIVERSITY :	See Table 4

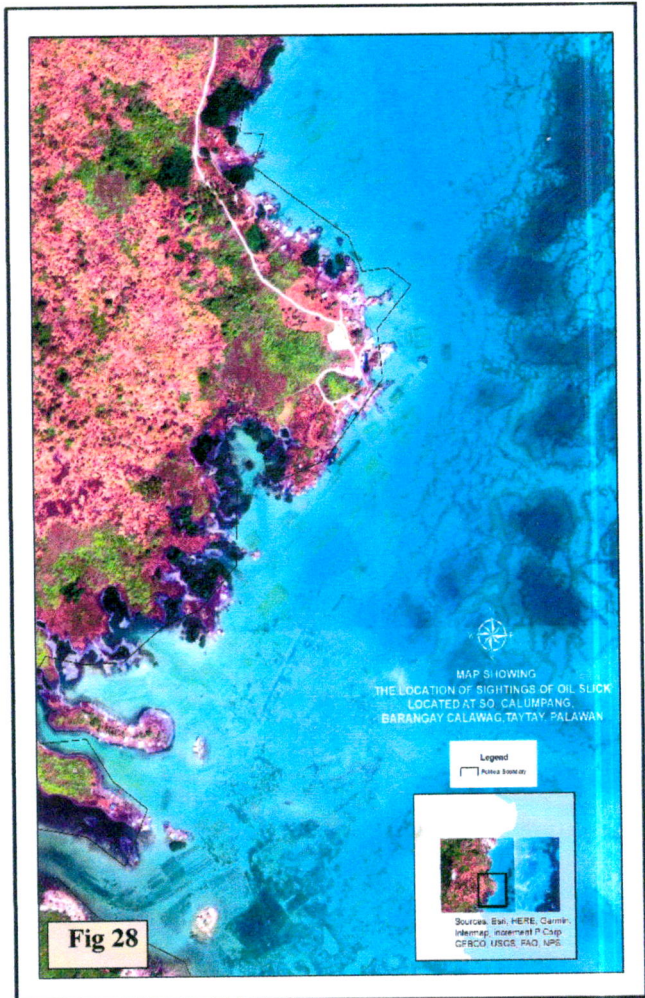


Photo documentation: Fig 28 above shows the vicinity of Calumpang. Fig 2 again shows the the same EMB representative taking water sample in Calumpang. Fig 30 shows that houses in the area are in the easement zone. Fig 31 shows newly harvested seaweeds of good and pricy species called “Giant. The drums in Figure 32 contain debris contaminated with oil tarts but not really of large amount.



Photo documentation: The vicinities of Paulangon is shown in Fig 33. Figure 34 shows the CENRO and Palawan Council for Sustainable Development Staff sighting oil sheen on the water in immediate mangroves habitat. Fig 35 shows a CENR Office staff taking the chance on doing Information, Education, and Communication (IEC). Fig 36 shows the water clear having oil sheen. The place is nearly an islet and some houses are already reached by the tide.



Paulangon	Fig 33, 34, 35
Location	10° 41' 55" N 119° 35' 11" E
LC Status	Unclassified Public Forest per Land Classification Map 939 (Project 9) dated May 21, 1932
Household	125
Respondents	7 for Degree of Oilage 1 for Biodiversity
Assessment	about 11:32 AM onwards of March 24
DEGREE OF OILAGE – See Table 5	
BIODIVERSITY – See Table 6	

Proper (Bagong Silang, Boulevard, Delmar) Fig 37, 38, 39, 40	
Location	10° 40' 09" N 119° 34' 19" E
LC Status	Inland is alienable and disposable within Block XVI of Project 9, LC Map 939 dated May 21, 1932 while almost the whole coastline is within classified Timberland (52 hectares of mangroves) per Block A of the same LC Map.
Household	433
Assessed	9:28 AM and onwards
Respondent	7 for Degree of Oil 4 for Biodiversity
DEGREE OF OILAGE	Table 7
BIODIVERSITY	Table 8

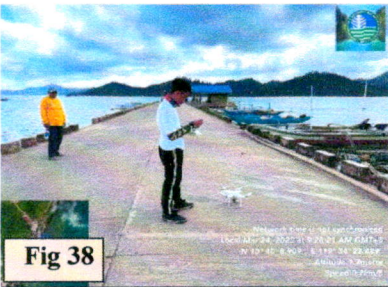


Photo documentation: Fig 37 shows the vicinities of the center of the community (Proper) of Calawag. Fig. 28 shows the NGP Staff about to fly drone. Fig 28 is the CENRO Staff doing interview, and Figure 40 shows Team I joined by PENRO, PENRO Staff and CENRO about to return to the respective stations.

Team 2 Biton (Fig 41)

Household	363
Respondents	12 in the whole barangay common for all the assessment methods
LC Status	Whole island is alienable and disposable under Block XIII of Project 9, LC Map No 939 dated May 21, 1932 except some blocks of Timberland (mangroves). It is known in the LC Map as Icadambanuan and Cabiluan islands)
Purok 1 (Figures 42, 43, 44)	
Location	10° 48' 41" N 119° 37' 52"E
Time assessed	9:28 AM onwards of March 24
SOCIO-ECONOMICS – see Table 9	
DEGREE OF OILAGE - see Table 10	





Photo documentation: Fig 41 shows Barangay Biton including its immediate bay around. Dinamayan Island is also shown southeast of the mainland barangay. Fig 42 shows the wharf where the team anchored. Fig 43 shows some residents making readying oil spill boom, and Fig 44 shows the team member doing the actual interview.

Dinamayan Island (Figures 45, 46, 47)	
Location	10° 47' 42" N 119° 38' 45" E
Assessed	10:48 AM onwards of March 24
Respondent	Included in the 12 for the whole Biton
DEGREE OF OILAGE	– see Table 11
BIODIVERSITY	- see Table 12



Photo documentation: Above Fig 45 shows MGB embedded personnel assisting water sampling. Fig 45 shows the same MGB embedded personnel doing coastal checking, and Fig 47 shows PCSD representative setting up drone to be flown.

Tagpao (Figures 48, 49, 50)	
Location	10° 48' 02" N 119° 38' 11" E
Assessed	12:26 Noon onwards of March 24
Respondent	Included in the 12 for the whole Biton
BIODIVERSITY	– see Table 13
DEGREE OF OIL	- see Table 14



Photo documentation: Above Figs 48 and 49 shows the same MGB embedded personnel doing a round of coastal checking. Fig 50 is a close-up shot of the foreshore which, accordingly is clean or free of oil contamination.

Team 3, Barangay Pamantolon, Casian, Debangon

Team 3 had the inconvenience in doing the assignment brought by the absence of watercraft, especially that Casian and Debangon are remote island barangays and calmness in the sea is usually time based. The two are neighbour islands, thus:

Pamantolon (Maliao) (Figures 51, 52, 53, 54)	
Location	10° 52' 23" N 119° 29' 29"E
LC Status	Maliao, Pamantolon is alienable and disposable within Block IX of Project 9-A, LC Map N0, 1614 dated September 23, 1952. The immediate coastline, however, is within the block of timberland (mangroves).
Assessed	3:48 PM onwards of March 24
Household	610
Respondent	8
SOCIO-ECONOMICS	- see Table 16
DEGREE OF OIL	- see Table 17
BIODIVERSITY	- see Table 18

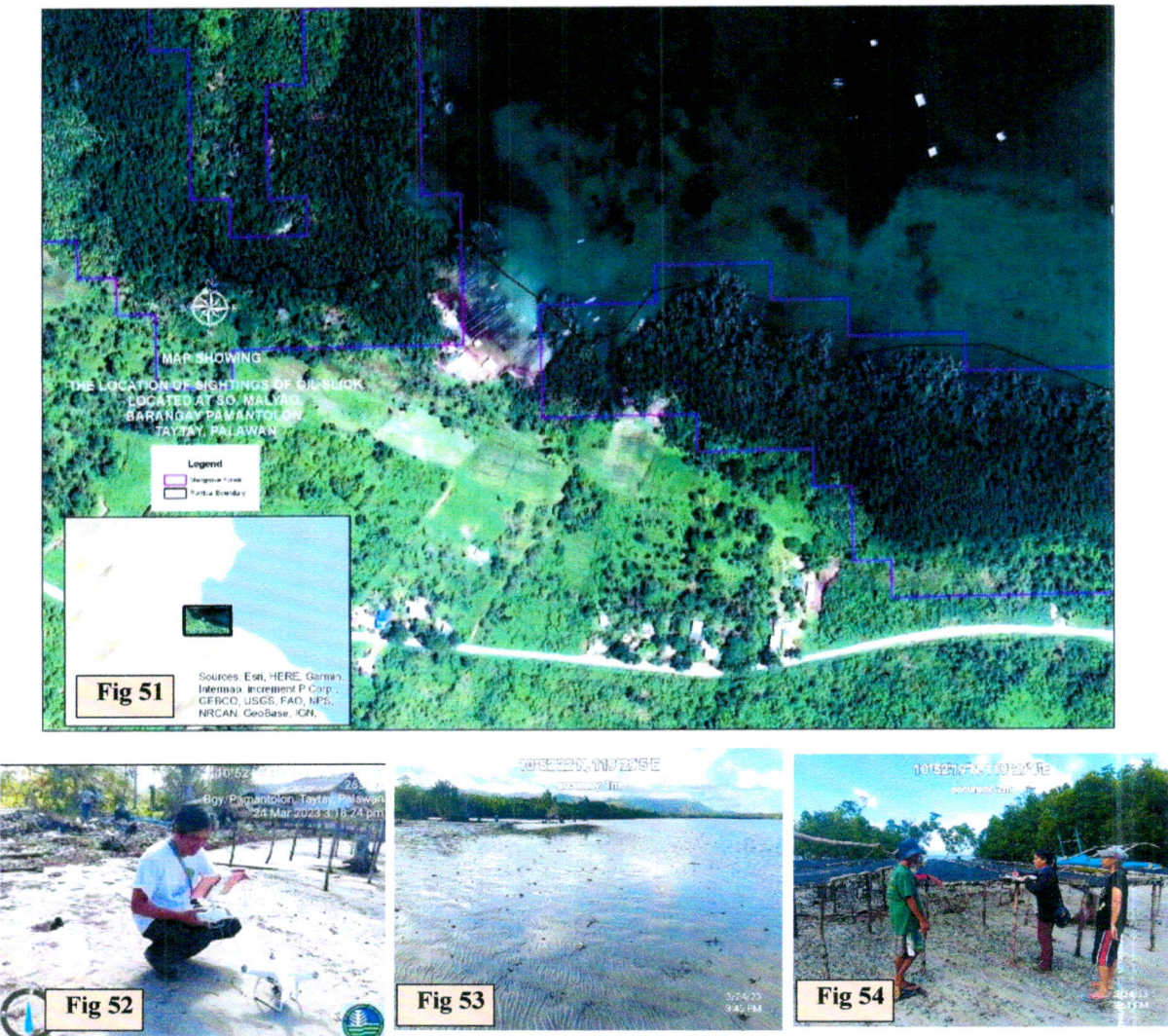


Photo documentation: Fig 51 shows the vicinities of Maliao. Shown in Fig 52 is the CENRO Staff in operation of drone over the place. Fig 53 is the wide foreshore in the area and the assessment team did not notice oil sheen around. Fig 54 is the member of Team 3 conducting the assessment through interview.

March 28-30 (Day 16-18, Tuesday to Thursday)

Casian (Fig 55)	
Location	11° 02' 43" N 119° 42' 52"E
LC Status	Casian Island is alienable and disposable within Block VII of Project 9, LC Map 939 dated May 21, 1932 consisting six hundred (600) hectares with the exception of Block P, being classified Timberland (mangroves) on the west.
Assessed	2:26 PM onwards of March 28
Household	1,200
Respondent	24 for socio-economics only
SOCIO-ECONOMICS	– see Table 15

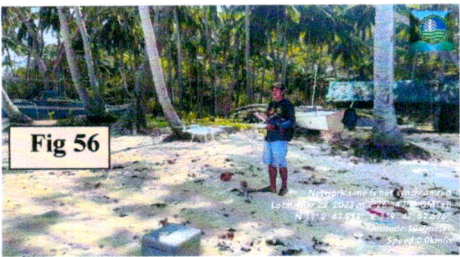
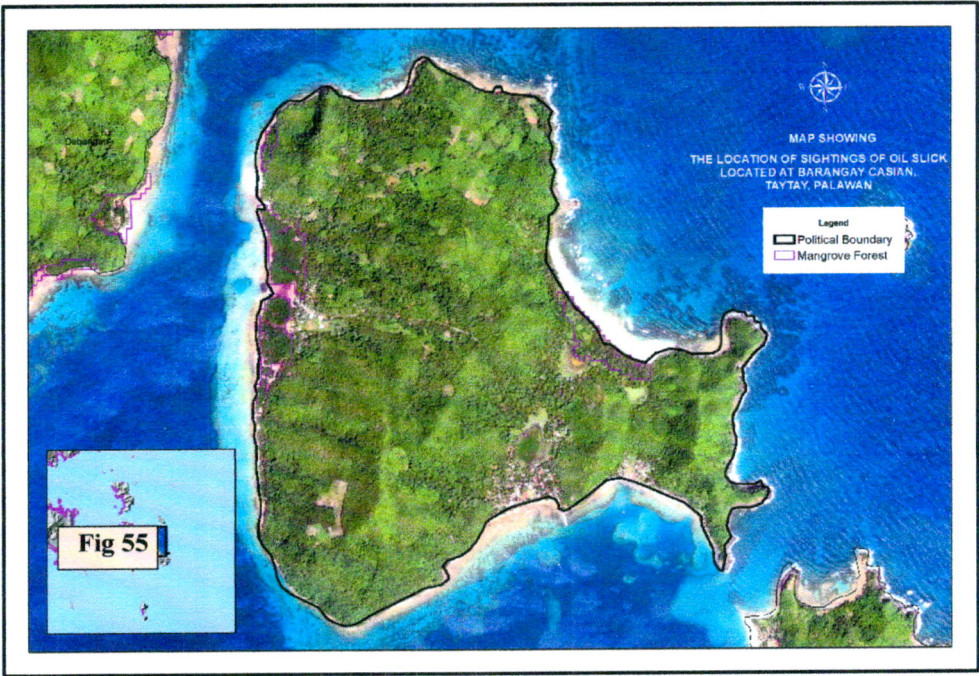


Photo documentation: Casian Island is shown in Fig 55. The Rapid Assessment was pushed through last March 28 and Fig 56 shows the CENRO Staff flying drone over Amianan coastline. The area is in continued monitoring as shown in Fig 57 where on March 30, men of the Coast Guard, among others, collected the drums earlier provided to contain debris contaminated by tarts, including sands. The waters samples previously taken in the area failed in the test. Fig 58 shows the CENRO Staff taking interview on March 28. Assessment in Debangan was aborted as advised by the Philippine Coast Guard that it was risky to proceed in the area since the previous days.

Team 1 Leader's notes:

- Oil contamination in Calawag is comparably slight than at Amianan (Casian) way back about two (2) weeks ago. Tarts and oily bubbles were seen in Amianan then. The

comparison is revealing in the results of the early water sampling. The Punong Barangay of Calawag, though, sent images of contaminated shoreline and seaweeds in the area.

- The Rapid Assessment mainly depended on interview. There was no enough time to do in-depth validation as needed, especially on the impacts to biodiversity like corals, sea grasses, mangroves, among others. Undoubtedly, though, it brought damage to livelihood of ordinary earners of the society. Total area of these habitats is not that rapid to determine.
- The Rapid Assessment only concludes the effect of the oil spill had reached the shores of Taytay. In-depth assessment as to the seriousness and until when, especially for the information of seaweeds farmers, has to be entrusted to the experts.
- Losses to the seaweeds farmers were brought by untimely harvest but even those that were kept in the waters supposedly as “binhi” did not endure.
- Calawag Bay looks good on March 24 except a particular spot in Paulangon where oil sheen was evident. This, however, is but a visual observation and regular test of water samples is very necessary.

Other notes shared in group chat of the Rapid Assessment Teams:


- In all the areas covered by the teams, corals, seagrass, mangroves, beach forest are present.
- Seaweeds wither and turned white or “dissolved”.
- EMB and BFAR are not sure yet if the damage to seaweeds was by the oil spill incident.
- EMB can only test for oil and grease; no equipment for determining the amount of polyaromatic hydrocarbons.
- Most oil-contaminated materials collected from clean-ups, not properly disposed.
- No public announcement yet on fishing ban
- Some of the affected community members are newly-birthed mothers/with infants
- There were no reports of groundwater contamination.
- No tourism establishments are situated in the four barangays except for one owned by a Barangay Captain.

Final note/recommendation

The survey questionnaire returns do not show consistency of responses, particularly in Calawag under the undersigned’s assignment. The number of respondents too is few as against the households count in all the assessment sites. The day activity may be a non-conformity if audited under the Environmental Management System (EMS) for few reasons.

At the moment, the undersigned can only recommended for continued coordination with the LGU/BLGU/MDRRMO and Coast Guard authorities.

Respectfully submitted.


MARIANO P. LILIANG, JR.
Development Management Officer IV
Team I Leader, Rapid Assessment

Attached: Four page consolidation table (Annex 1 – 1c)

4	Proper (Purok Bagong silang, Boulevard, Delmar)	10° 40' 09" N 119° 34' 19" E Date: 3/24/03 Time assessed: 9:15 AM onwards	433	7	DEGREE OF OILAGE							
					Table 7					Remarks		
					Oil presence	Degree of oilage	Extent affected	Indication offshore	Disposal		Estimated oil collected	
					shoreline	Low to moderate	1 kilometer	smell, patches	Nasa dagat sa may nga seaweeds		2 liters	
					1. Hindi masyadong apektado 2. amoy aspalto 3. March 3 to 10 may oil spill 4. meron pa							
BITON	Purok 1	Date: 3/24/03	363	12	BIODIVERSITY							
					Table 8					Remarks		
					Habitat	Wildlife seen	Fishery commodity	Found dead	LMPA			
					Corals, mangroves, seagrass	(left blank)	Seaweeds, alimasaag, fish	none	(Left blank)			
					SOCIO-ECONOMICS							
1	Purok 1	Date: 3/24/03	363	12	DEGREE OF OILAGE							
					Table 9					Remarks		
					Livelihood	Most affected	Impact level	Health impact	Aid		Measure	
					Sea cucumber farming, hook and line, gleaning (shells)	Hook and line	low for hook and line	coughs and colds	none		On-going preparation, Ready for installation	
					DEGREE OF OILAGE							
2	Dinamayan Is.	Date: 3/24/03	363	12	DEGREE OF OILAGE							
					Table 10					Remarks		
					Oil presence	Degree of oilage	Extent affected	Indication offshore	Disposal		Estimated oil collected	
						sheen	(left blank)	(left blank)	none		No presence of oil during the assessment both on shoreline and offshore. 2. A 50X200 meters oil sheen along the shoreline of purok 1 was observed on March 22, 2023 at about 4:45 AM to 10: AM	
					DEGREE OF OILAGE							
2	Dinamayan Is.	Date: 3/24/03	363	12	DEGREE OF OILAGE							
					Table 11					Remarks		
					Oil presence	Degree of oilage	Extent affected	Indication offshore	Disposal		Estimated oil collected	
					No presence of oil during the assessment both on shoreline and offshore	(left blank)	Sighting on oil sheen on March 13-16, 2023	Sighting on oil sheen on March 13-16, 2023	(left blank)		(no answer)	No presence of oil during the assessment both on shoreline and offshore. Sighting of oil sheen on March 13-16, 2023

✓

3 Tagpao (Purok)	Date: 3/24/03 Time assessed 12:30 noon	part of 363	Biodiversity						
			Table 12						
			Habitat	Wildlife seen	Fishery commodity	Found dead	LMPA	Remarks	
			Corals, mangroves	Sea turtles, seashore birds	(no answer)	none	Black Rock Sanctuary	(no answer)	
			Table 13						
Biodiversity									
Habitat	Wildlife seen	Fishery commodity	Found dead	LMPA	Remarks				
corals, mangroves, mudflat	sea turtles, seashore birds	(no answer)	none	BlackRock Sanctuary	(no answer)				
Table 14									
DEGREE OF OILAGE									
Oil presence	Degree of oilage	Extent affected	Indication offshore	Disposal	Estimated oil collected	Remarks			
No presene of oil during the assessment on shoreline and offshore	Sighting of oil sheen on March 13-16, 2023	(no answer)	Sighting of oil sheen on March 13-16, 2023	none	Sighting of oil sheen on March 13-16, 2023				
Table 15									
SOCIO-ECONOMICS									
Livelihood	Most affected	Impact level	health Impact	Aid	Measure	Remarks			
Fishing (hook and line), labor worker	Hook and line	moderate to high	skin rashes, cough, colds, shortness of breath, body pain, LBB, headache	foodpacks from DSWD	installed oil slick boom, ready for installation, on-goingpreparatio n, coastal clean-up	(no answer)			

CASIAN Date:3/28/03 1,200 24



PAMANTOLON		Date: 3/24/03		
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